

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2005/000654

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7): C22B 3/22, C22B 3/06, C01G 49/06, C22B 3/44, C22B 7/02  According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>  Minimum documentation searched (classification system followed by classification symbols) IPC 7: C22B, C01G      USPC: 75, 423      CPC: 53  Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used) Delphion		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2,643,204 (Mancke) 23 June 1953 (23-06-1953) * whole document *	1, 3, 4, 13, 14
Y	US 2,762,703 (Mancke) 11 September 1956 (11-09-1956) * whole document *	1, 3, 4, 11-14
Y	US 2,916,357 (Schaufelberger) 8 December 1959 (08-12-1959) * col.2, 1.20-28, 50-57, 65-72; example 2 *	1, 3, 4, 7, 11-14, 27
Y	US 4,097,271 (Swinkels et al.) 27 June 1978 (27-06-1978) * col.8, 1.6-13, 19-21; claim 1 *	1, 3, 9, 10
Y	US 4,282,190 (Müller et al.) 4 August 1981 (04-08-1981) * col.2, 1.1-15; examples *	1, 3, 4, 9, 10-13, 15
X	US 4,414,196 (Matsumoto et al.) 9 November 1983 (08-11-1983)	1-4, 7-12, 15-27
Y	* col.1, 1.59-68; col.4, 1.24-27; col.5, 1.25-32 *	13, 14
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 29 July 2005 (29-05-2005)		Date of mailing of the international search report 17 August 2005 (17-08-2005)
Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0C9 Facsimile No.: 001(819)953-2476		Authorized officer  Jay Fothergill (819) 997-4842

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,616,747 (Sumita) 9 September 2003 (09-09-2003) * background of invention; col.3, 1.30-40, 61-67; col.2, 1.1-5; example 1 *	1, 7, 8, 13, 14, 20-25, 27
Y	CA 2,156,295 (McElroy) 1 September 1994 (01-09-1994) * p.6, 1.16-29; p.11, 1.31-34; claim 1 *	1, 3, 4, 9, 26
A	JP 56-129615 A2 (Katsuyasu et al.) 9 October 1981 (09-10-1981) * abstract *	1, 3

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Information on patent family members

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